

CLAIM AMENDMENTS

Please cancel Claims 5-10. The following listing of claims replaces all prior versions and listing of claims in the application:

1. (Previously Presented) In a forced air HVAC system having a network of air ducts connecting a central discharge plenum to a plurality of air vents, a method for installing an air tube from said plenum to at least one of said air vents, comprising:
 - 1) connecting a blower to said plenum;
 - 2) providing a flexible and expandable air flow restricting device adapted for passing through said air ducts and substantially restricting airflow at any location in said air ducts;
 - 3) providing a string connecting to said restricting device, said string sufficiently long to connect from said air ducts to said plenum, and sufficiently flexible to easily follow a path through said air ducts, and sufficiently strong so as not to break when used to pull an air tube through said air ducts;
 - 4) blocking all of the air vents but one air vent;
 - 5) inserting said restricting device into said one air vent;
 - 6) running said blower such that air flows at a rate sufficiently fast to pull said restricting device and said string from said one air vent to said plenum;
 - 7) providing tension on said string while letting out said string such that said restricting device moves through said air ducts at a practical and reasonable speed until said restricting device reaches said plenum;
 - 8) stopping said blower when said restricting device arrives at said plenum;
 - 9) connecting said air tube to said string at said one of air vents;
 - 10) accessing said string at said plenum; and
 - 11) pulling said string at said plenum such that said air tube is pulled from said one of air vents through said air ducts to said plenum;

whereby said air tube is installed from said one of air vents to side plenum by accessing said air ducts only at said one of air vents and at said plenum.

2. (Previously Presented) The method of claim 1 further including repeating steps 4) through 11) for each of the other said air vents.

3. (Previously Presented) The method of claim 1 wherein providing said restricting device further includes:

providing a substantially square or round sheet of plastic film of area of approximately the same size as a largest cross section area of any said air duct;

providing at least three strings of length approximately equal to a largest linear dimension of said sheet;

connecting one end of each said strings approximately equally spaced around a perimeter of said sheet; and

connecting the other ends of said strings to said string provided in said step 3);

whereby said flexible and expandable airflow restricting device is a simple parachute.

4. (Previously Presented) The method of claim 1 further including a method for enabling said restricting device to pass by a snag, comprising:

a) sensing said tension in said string abruptly decreasing, indicating said restricting device is snagged;

b) pulling said string back towards said air vent until said tension returns to an approximate value before said snag;

c) releasing said string such that said restricting device quickly accelerates;

d) monitoring said string as said restricting device accelerates and reapplying said tension to said string after said restricting device has passed said snag; and

e) repeating said steps b) through d) until said restricting device has passed said snag; wherein a length of said string pulled back toward said air duct is varied and wherein the rate of releasing said tension is varied;

whereby said restricting device passes by said snag.

Claims 5-10 (Canceled)

11. (Previously Presented) A method of installing a control system in an HVAC system which includes a plenum, at least one trunk, and a plurality of ducts each having a vent, the method comprising:

coupling a blower to one of the plenum and the trunk;

operating the blower to provide airflow through the ducts into the one of the plenum and the trunk;

inserting an air drag device into one of the vents, the air drag device having coupled thereto one of a line and an air tube;

waiting until the air drag device has traveled from the vent substantially to the blower;

removing the air drag device from the HVAC system;

if the air drag device had the line coupled thereto, using the line to pull the air tube from the vent substantially to the blower;

coupling a vent end of the air tube to an inflatable bladder disposed within one of the vent and a duct coupled to the vent; and

extending a plenum end of the air tube into the plenum.

12. (Previously Presented) The method of claim 11 wherein:

the air drag device comprises a parachute.

13. (Previously Presented) The method of claim 11 further comprising:

repeating the steps from the inserting step onward, for additional ones of the vents.

14. (Previously Presented) The method of claim 11 further comprising:

blocking some of the vents to increase airflow through non-blocked vent(s).

15. (Previously Presented) The method of claim 14 wherein:

blocking a vent comprises using an oversized block of foam to block one of the vent and a duct coupled to the vent.

16. (Previously Presented) The method of claim 14 wherein:
blocking some of the vents comprises blocking all but one of the vents at a time.

17. (Previously Presented) The method of claim 11 further comprising:
blocking all of the vents;
measuring a pressure within one of the trunk, the plenum, and the blower; and
in accordance with the measured pressure, determining an airflow in order to determine whether there are leaks in the HVAC system.

18. (Previously Presented) The method of claim 17 further comprising:
the pressure being measured within the plenum; and
blocking airflow into an inward airflow end of the plenum, the trunk being coupled to an outward airflow end of the plenum.

19. (Previously Presented) The method of claim 11 further comprising:
removing a grill from the vent prior to inserting the air drag device; and
replacing the grill after coupling the vent end of the air tube to the inflatable bladder.

20. (Previously Presented) The method of claim 19 further comprising:
providing an access hole through an accessed one of the plenum and the trunk;
coupling the plenum end of the air tube to a valve system including a pressure and vacuum pump;
mounting the valve system at a location in close proximity to the plenum; and
sealing the access hole.

21. (Previously Presented) The method of claim 20 further comprising:
repeating the steps from the inserting step to the extending step, for additional ones of the vents.

22. (Previously Presented) The method of claim 21 further comprising:
performing the steps from the inserting step to the extending step, for a bypass coupled to the plenum.

23. (Previously Presented) The method of claim 21 further comprising:
performing the steps from the inserting step to the extending step, for a return air duct of
the HVAC system.

24. (Previously Presented) The method of claim 20 wherein:
mounting the valve system comprises coupling the valve system to the plenum.